

CLAIMS

1. A pre-filled disposable pipette comprising:
 - a) a hollow bulb containing a medicinal product and having an upper end and a lower end further having a substantially centered opening,
 - b) a medication transfer tube having an upper end that interfaces with the centered opening on said hollow bulb, and a lower end,
 - c) a medication fill tube having an upper end and a lower tip,
 - d) a break-away notch located between the lower end of said medication transfer tube and the upper end of said medication fill tube, wherein when said notch is caused to be twisted, the medication fill tube breaks off from said medication transfer tube, allowing the medicinal product in said hollow bulb to be dispensed from the lower end of said medication transfer tube, and
 - e) means for sealing the lower tip of said medication fill tube.
2. The pre-filled disposable pipette as specified in claim 1 further comprising a primary grasping tab having an upper edge and a lower edge that centrally interfaces with and conforms to the upper end of said hollow bulb.
3. The pre-filled disposable pipette as specified in claim 2 further comprising a secondary grasping tab comprising:
 - a) a first section having an outer edge and an inner edge that interfaces with a first side of said medication transfer tube, and
 - b) a second section having an outer edge and an inner edge that interfaces with a second side of said medication transfer tube.
4. The pre-filled disposable pipette as specified in claim 3 further comprising a support tab comprising:

a) a first section having an outer edge and an inner edge that interfaces with a first side of said medication fill tube, and

b) a second section having an outer edge and an inner edge that interfaces with a second side of said medication fill tube.

5. The pre-filled disposable pipette as specified in claim 1 wherein said hollow bulb further comprises on two opposite sides a flat finger-grasping area.

6. The pre-filled disposable pipette as specified in claim 1 wherein said hollow bulb, said medication transfer tube, said medication fill tube, said break-away notch, said primary grasping tab, said secondary grasping tab and said support tab are all integrally molded of thermoplastic.

7. The pre-filled disposable pipette as specified in claim 6 wherein said thermoplastic can be transparent or color tinted to indicate the type or the quantity of medication located in said hollow bulb.

8. The pre-filled disposable pipette as specified in claim 1 wherein said lower tip sealing means is comprised of a first lower tip sealing means comprising the application of a heat flow to a rotating lower tip to melt the tip, wherein the surface tension caused by the melted tip seals the lower tip.

9. The pre-filled disposable pipette as specified in claim 1 wherein said lower tip sealing means is comprised of a second lower tip sealing means comprising the application of a heat flow to a rotating lower tip to melt the tip, wherein an ambient temperature device having an opening is subsequently pressed over the melted tip to seal the lower tip.

10. The pre-filled disposable pipette as specified in claim 9 wherein the opening of said ambient temperature device has a geometric shape.

11. The pre-filled disposable pipette as specified in claim 1 wherein said lower tip sealing means is comprised of a third lower tip sealing means comprising the application of a heat flow to the lower tip to melt the tip, wherein an ambient temperature clamp is then adjusted to clamp the melted tip to seal the lower tip.

12. The pre-filled disposable pipette as specified in claim 1 wherein said lower tip sealing means is comprised of a fourth lower tip sealing means comprising inserting over an ambient temperature lower tip, a heated element that melts and crimps the lower tip, wherein after the heated element is removed a sealed lower tip is produced.

13. The pre-filled disposable pipette as specified in claim 1 wherein said lower tip sealing means is comprised of a fifth lower tip sealing means comprising the application of a high-temperature, dual-element device that melts, crimps and seals the lower tip.

14. The pre-filled disposable pipette as specified in claim 1 wherein said tube sealing means is comprised of a sixth lower tip sealing means comprising placing a heated element over the lower tip to melt the tip, wherein an ambient temperature device having an opening is subsequently pressed over the melted tip to seal the lower tip.

15. The pre-filled disposable pipette as specified in claim 1 wherein said tube sealing means is comprised of a seventh lower tip sealing means comprising placing a heated element over the lower tip to melt the lower tip, and thereafter placing an ambient-temperature dual-element device over the melted lower tip that crimps and seals the lower tip.

16. The pre-filled disposable pipette as specified in claim 14 wherein the opening of said ambient temperature device has a geometric shape.

17. The pre-filled disposable pipette as specified in claim 16 wherein the geometric shape of said ambient temperature device has a spherical or a conic shape.

18. The pre-filled disposable pipette as specified in claim 12 wherein the heated element has a geometric shape.

19. The pre-filled disposable pipette as specified in claim 18 wherein the geometric shape of the heated element has a spherical or a conic shape.

20. An improved pre-filled disposable pipette of the type consisting of a hollow bulb having an upper end and a lower end further having a substantially centered opening, a medication transfer tube having a lower end and an upper end that interfaces with the centered opening on the hollow bulb, a medication fill tube having an upper end and a lower tip, and means for sealing the lower tip of the medication fill tube after the hollow bulb is filled with a medication product, wherein said improvement comprises: a break-away notch located between the lower end of the medication transfer tube and the upper end of the medication fill tube, wherein when said break-away notch is caused to be twisted, the medication fill tube breaks off from the medication transfer tube, thus allowing the medication product in the hollow bulb to be dispensed from the lower end of the medication transfer tube.